

Submit Comments

ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 9 OCTOBER 2020

Under the National Standardisation Programme, the public comment period is an important stage of standards development. Members of the public are invited to provide feedback on draft Singapore Standards for publication and work item proposals for development and review of Singapore Standards and Technical References. The establishment of Singapore Standards is done in accordance with the World Trade Organisation's requirements for the development of national standards.

A) Notification of Draft Singapore Standards for Publication

Members of the public are invited to comment on the following Singapore Standard documents:

Building and Construction – [design of concrete structures](#) (Eurocode 2)

Chemical – [lead and chromate-free primer for iron and steel substrates](#)

Environment and Resources – [greenhouse gases](#)

Food – [cold chain management of chilled and frozen foods](#) (meat, fish, vegetables and fruits)

For more information on viewing the documents, [click here](#).

Closing date for comments: **10 December 2020**

Please submit comments to: kay_chua@enterprisesg.gov.sg.

B) Notification of Work Item Proposals

B.1 Proposal for New Work Items

New Work Items (NWIs) are approved proposals to develop new Singapore Standards or Technical References (pre-standards).

Members of the public are invited to comment on the scope of the new standards and contents that can be included into the following proposals:

Environment and Resources – [greenhouse gases](#) (guidance for the application of SS ISO 14064-1)

Trade and Connectivity – [rapid transit system](#) (5 standards)

Closing date for comments: **10 November 2020**.

Please submit comments to: kay_chua@enterprisesg.gov.sg.

B.2 Proposal for the Review of Singapore Standards

Published Singapore Standards are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request).

Members of the public are invited to comment on the following standards to be reviewed:

Chemical – [bunker mass flow metering](#)

Electrical and Electronics – [earthing](#)

Environment and Resources – [greenhouse gases](#) (validation and verification bodies for use in accreditation or other forms of recognition)

The reviews are ongoing and the new versions/drafts are not available at this juncture. Users can refer to the current standard to provide feedback. [Click here](#) to view or purchase the standard.

Closing date for comments: **10 November 2020**.

Members of the public are invited to join as standards partners, co-opted members or resource members subject to the approval of relevant committees and working groups.

To comment or to join in the development of these standards, please write to kay_chua@enterprisesg.gov.sg.

A) Notification of draft Singapore Standards for Publication

(I) Building and Construction

Amendment

- 1. Amendment No. 1 to Eurocode 2 – Design of concrete structures – Part 1-1 : General rules and rules for building (SS EN 1992-1-1 : 2008)**
Amendment No. 2 to Singapore National Annex to Eurocode 2 – Design of concrete structures – Part 1-1 : General rules and rules for buildings (NA to SS EN 1992-1-1 : 2008)

The amendments incorporate changes to National Determined Parameters and also include a new value for the punching shear resistance of slabs and column bases with shear reinforcement.

Those interested in these Amendments may include consultants, contractors, developers, professional engineers, suppliers/manufacturers, tertiary institutions, testing bodies, accreditation bodies and relevant government agencies.

[\(Click here](#) to download Amendment No. 1 to SS EN 1992-1-1)

[\(Click here](#) to download Amendment No. 2 to NA to SS EN 1992-1-1)

(II) Chemical

Amendment

- 2. Amendment No. 2 to Specification for lead and chromate-free primer for iron and steel substrates (SS 494 : 2001)**

This amendment includes updated references to the latest SS 5 test methods. It specifies the chromium (VI) content and its suitable test method, and aligns the unit of measurement for lead content and chromium (VI) content with other paint performance specification standards.

Those interested in this amendment may include paint manufacturers, suppliers, test laboratories, contractors, applicators, architectural associations, consultants, facilities/property managers, land surveyors and relevant government agencies.

[\(Click here](#) to download the Amendment)

(III) **Environmental and Resources**

New

3. **Greenhouse gases**

Part 1 : Specification with guidance at the organisation level for quantification and reporting of greenhouse gas emissions and removals (Identical adoption of ISO 14064-1 : 2018)

This standard specifies principles and requirements at the organisation level for the quantification and reporting of greenhouse gas (GHG) emissions and removals. It includes requirements for the design, development, management, reporting and verification of an organisation's GHG inventory.

Part 2 : Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements (Identical adoption of ISO 14064-2 : 2019)

This standard specifies principles and requirements and provides guidance at the project level for the quantification, monitoring and reporting of activities intended to cause GHG emission reductions or removal enhancements. It includes requirements for planning a GHG project, identifying and selecting GHG sources, sinks and reservoirs (SSRs) relevant to the project and baseline scenario, monitoring, quantifying, documenting and reporting GHG project performance and managing data quality.

Part 3 : Specification with guidance for the verification and validation of greenhouse gas statements (Identical adoption of ISO 14064-3 : 2019)

This standard specifies principles and requirements and provides guidance for verifying and validating GHG statements. It is applicable to organisation, project and product GHG statements.

The ISO 14064 series of standards is GHG programme neutral. If a GHG programme is applicable, requirements of that GHG programme are additional to the requirements of the ISO 14064 series.

Potential users of the SS ISO 14064 series include inspection and certification bodies, testing laboratories, professional institutions, large energy intensive industrial companies, and relevant government agencies.

(IV) **Food**

New

4. **Cold chain management of chilled and frozen foods**

The review of the standards on cold chain management of chilled and frozen food resulted in the development of a five-part standard of which the following four parts are issued for public comment. Part 5 on chilled table eggs is currently under drafting and will be released for public comment when it is ready.

This series of standards covers cold chain management from pre-harvesting, post-harvesting, production, preparation and processing, handling, packing/packaging, storage transportation, distribution, and retail sales where applicable to the different chilled and frozen foods to ensure their safety, quality and wholesomeness and to safeguard public health.

Part 1: General requirements

This standard provides generic requirements for an organisation to set up a cold chain system. It is intended for the application and observance of temperature controls in chilled and frozen foods. It also covers the management of a cold chain system at the top level to set policy and goals of the organisation to ensure food safety, freshness and quality.

Part 2: Code of practice for meat

This standard provides specific cold chain requirements for meat covering, meat carcass chilling after slaughter, cutting, deboning, offal harvesting, etc.

This standard is applicable to beef, mutton, pork, poultry meat and game/wild meat that are not further processed. It covers carcasses, sides, meat parts and offal.

Part 3: Code of practice for vegetables and fruits

This standard provides specific cold chain requirements for vegetables and fruits covering pre-harvest and harvesting practices at the farm, post-harvest preparation and minimal handling such as cutting, etc.

This standard is applicable to whole, intact and minimally cut vegetables and fruits which are not further processed. It covers whole leafy, headed and fruited vegetables, roots, herbs and fruits.

Part 4: Code of practice for fish

This standard provides specific cold chain requirements for fish covering post-harvest handling, icing, cutting, filleting, quick-freezing, glazing, etc.

This standard is applicable to raw and minimally processed chilled and frozen fish including whole, fillet, cuts, etc.

Organisation that use the standards for certification purpose shall be required to adopt the appropriate standards to demonstrate its ability to consistently meet cold chain requirements. Parts 2 to 4 do not define the manufacturing requirements for processes nor repeat the general technical requirements of a cold chain system covered in Part 1. For certification purposes, the respective part of the standard is to be used in conjunction with Part 1.

Potential users of the standards include food suppliers, traders, manufacturers, logistic partners and cold store operators, distributors and retailers who provide cold chain management.

Upon the publication of the above standards, the following will be withdrawn:

- TR 49 : 2016 Cold chain management of frozen fish and seafood
- SS 552 : 2016 Code of practice for cold chain management of chilled pork
- SS 585 : 2013 Cold chain management of vegetables
- SS 621 : 2016 Code of practice for cold chain management of milk and dairy products (provisions have been subsumed under Part 1 of the new standard)

Copies of the drafts and standards are available at:

Viewing from Singapore Standards eShop

Login to Singapore Standards eShop at: www.singaporestandardseshop.sg

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Viewing Singapore Standards and ISO Standards from National Libraries

All public libraries' multimedia stations and on personal internet/mobile devices (e.g. mobile phones, notebooks, tablets) at all public libraries via NLB eDatabases "Singapore and ISO Standards Collection" (refer to www.nlb.gov.sg/VisitUs.aspx for address and viewing hours)

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NOTE – The viewing period of the drafts and standards will expire on the closing of the public comment period and will no longer be available after this date.

B) Notification of Work Item Proposals

B.1 Proposed New Work Items

(I) Environmental and Resources

1. Technical Reference – Greenhouse gases : Quantification and reporting of GHG emissions for organisations – Guidance for the application of SS ISO 14064-1 (Identical adoption of ISO/TR 14069 : 2013)

This standard describes the principles, concepts and methods relating to the quantification and reporting of direct and indirect GHG emissions for an organisation. It provides guidance for the application of the proposed SS ISO 14064-1 to GHG inventories at the organisation level, for the quantification and reporting of direct emissions, energy indirect emissions and other indirect emissions.

This standard describes for all organisations, including local authorities, the steps for:

- establishing organisational boundaries in accordance with either a control approach (financial or operational) or an equity share approach;
- establishing operational boundaries by identifying direct emissions and energy indirect emissions to be quantified and reported, as well as any other indirect emissions the organisation chooses to quantify and report; for each category of emission, guidance is provided on specific boundaries and methodologies for the quantification of GHG emissions and removals;
- GHG reporting where guidance is provided to promote transparency regarding the boundaries, the methodologies used for the quantification of direct and indirect GHG emissions and removals, and the uncertainty of the results.

Potential users of this standard include inspection and certification bodies, testing laboratories, professional institutions, large energy intensive industrial companies, and relevant government agencies.

(II) Trade and Connectivity

2. Technical Reference – Specifications for system and software modification for the rapid transit system

This standard specifies the requirements and criteria when requesting for a system and/or software modification on the rapid transit system (RTS) in Singapore. The standard covers modification works in the operation and maintenance phase that is performed on the RTS, including but not limited to system modifications that may have an impact on the safety and/or operational performance of the RTS, and software modifications.

3. Technical Reference – Specifications for maintenance process modification for the rapid transit system

This standard specifies the requirements and criteria when carrying out modification of the maintenance work process on the RTS in Singapore. The standard covers modification requests which include task additions and/or removals, revision of task frequencies, and replacement of or new components in operating assets.

4. Technical Reference – Safety management system for the rapid transit system

This standard specifies the requirements for a safety management system for RTS operators and the railway industry. It covers high-level requirements for the following:

- leadership and commitment;
- occupational health and safety policies;
- organisational roles and responsibilities;
- hazard identification;
- assessment of risks;
- resources;

- competence;
- awareness;
- communications;
- operations control;
- management of change emergency preparedness and response; and
- management review and continual improvement

5. Technical Reference – Mass Rapid Transit (MRT) operations – Guide for platform screen doors

This standard provides guidance on the operation of platform screen doors (PSD) to enhance its functionality, reliability, and safety. It covers related terminology, and operational requirements that can complement PSD designs.

6. Technical Reference – Mass Rapid Transit (MRT) operations – Guide for passenger lifts in stations

This standard provides guidance on the operation of passenger lifts in MRT stations that will enable faster response from staff during rescue operations, and enhance safety for wheelchair-bound passengers. It covers related terminology, operational guidelines as well as the recommended range of specifications to be considered when designing or choosing a lift model.

Potential users of the standards on rapid transit system include rail transport operators, contractors, suppliers/manufacturers, tertiary institutions, testing bodies and relevant government agencies.

B.2 Review of Singapore Standards

(I) Chemical

1. Technical Reference – Bunker mass flow metering (TR 48 : 2015)

This standard covers the requirements of metering system qualification, installation, testing, procedures and documentation for bunker custody transfer using the Coriolis mass flow metering system.

This TR will be withdrawn as it has been replaced by SS 648 : 2019, “Code of practice for bunker mass flow metering”.

Users of this standard include bunker suppliers, bunker surveyors, bunker tanker operators, shipowners/buyers, Coriolis mass flow meter vendors, service providers and relevant government agencies.

(II) Electrical and Electronics

2. Code of practice for earthing (SS 551 : 2009)

This standard covers the methods which may be adopted to earth an electrical system for the purpose of limiting the potential (with respect to the general mass of the earth) of current-carrying conductors forming part of the system, and non-current-carrying metalwork associated with equipment, apparatus, and appliances connected to the system.

This standard applies to land-based installations. It does not apply to trains, ships, aircrafts or offshore installations. It also does not deal with the earthing of medical equipment or special problems encountered with solid-state electronic components and equipment due to their sensitivity to static electricity. This standard also does not address electromagnetic compatibility requirements for earthing, nor does it provide recommendations for functional earthing.

Users of the standard include electrical systems suppliers, academia and relevant government agencies.

(III) **Environment and Resources**

3. Greenhouse gases – Requirements for GHG validation and verification bodies for use in accreditation or other forms of recognition (SS ISO 14065 : 2017)

This standard provides general principles and requirements for competence, consistent operation and impartiality of bodies performing validation/verification as conformity assessment activities of greenhouse gas assertions.

Users of SS ISO 14065 include inspection and certification bodies, testing laboratories, professional institutions, private companies and relevant government agencies.

Submit Comments

Frequently asked questions about public comment on Singapore Standards:

1. What is the public comment on Singapore Standards?

Singapore Standards are established based on an open system which is also in accordance with the requirements of the World Trade Organisation. These documents are issued as part of a consultation process before any standards are introduced or reviewed. The public comment period is an important stage in the development of Singapore Standards. This mechanism helps industry, companies and other stakeholders to be aware of forthcoming changes to Singapore Standards and provides them with an opportunity to influence, before their publication, the standards that have been developed by their industry and for their industry.

2. How does public comment on Singapore Standards benefit me?

This mechanism:

- ensures that your views are considered and gives you the opportunity to influence the content of the standards in your area of expertise and in your industry;
- enables you to be familiar with the content of the standards before they are published and you stand to gain a competitive advantage with this prior knowledge of the standards.

3. Why do I have to pay for the standards which are proposed for review or withdrawal?

These standards are available for **free viewing** at Toppan Leefung Pte Ltd and all public libraries. However, the normal price of the standard will be charged for those who wish to purchase a copy. At the stage where we propose to review or withdraw the standards, the standards are still current and in use. We seek comments for these standards so as to:

- provide an opportunity for the industry to provide inputs for the review of the standard that would make the standard suitable for the industry's use,
- provide feedback on the continued need for the standard so that it will not be withdrawn,

4. What happens after I have submitted my comments?

The comments will be channelled to the relevant standards committee for consideration and you will be informed of the outcome of the committee's decision. You may be invited to meet the committee if clarification is required on your feedback.

5. Can I view drafts after the public comment period?

Drafts will not be available after the public comment period.

6. How do I request for the development of a new standard?

You can propose the development of a new standard [here](#).